Course Proposals for Chemistry Program Revisions

Part II. 1. New syllabus of record.

I. Catalog Description

Course Title: Intermediate Inorganic Chemistry (1c-31-2sh)

Prefix: CHEM Number: 214 Hours: 1c-31-2sh

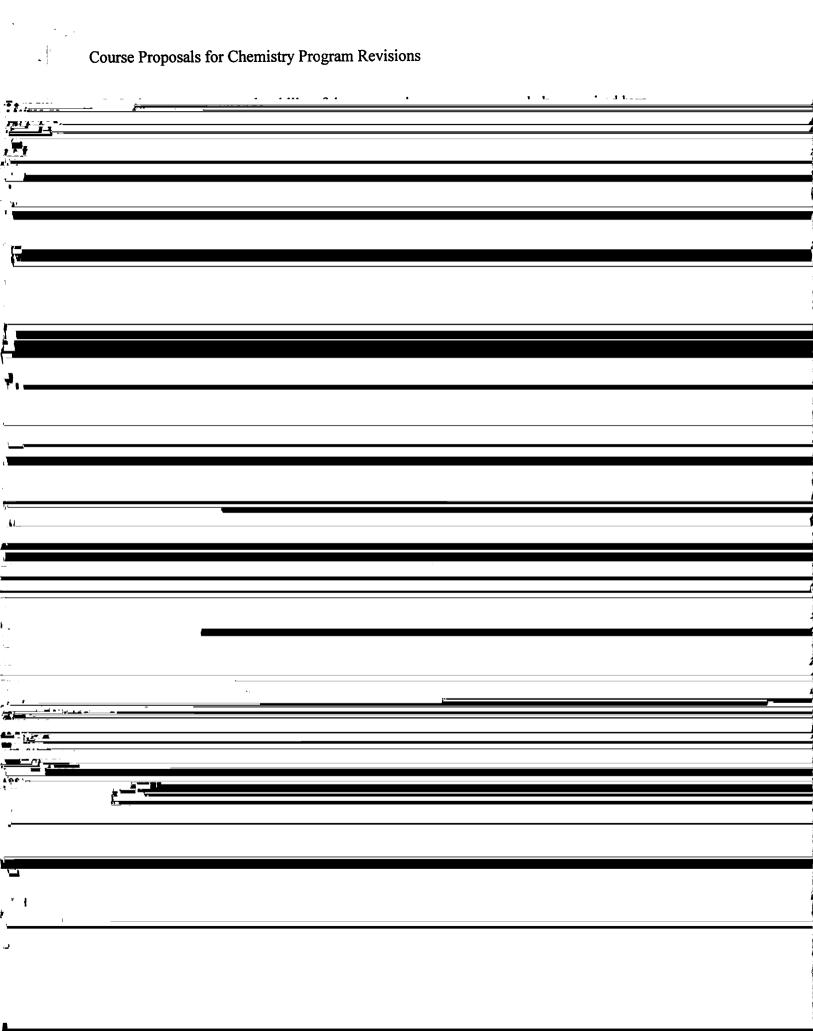
Prerequisites: CHEM 112 or 114

Description: The course will present the characteristic reactions and compounds of elements from across the periodic table. For the main-group elements, both discrete molecular compounds and non-molecular materials will be discussed. For the alkali, transition and inner-transition metals, the focus will be on non-molecular species such as ionic compounds, ceramics, superconductors and other inorganic-based materials. The solid-state structure of inorganic-based materials will also be presented. Laboratory activities will be used to reinforce concepts presented in lecture, and to stimulate interest through discovery-based exercises

- II. Objectives: Upon successful completion of this course, the student will:
 - 1) know trends inherent in the arrangement of the elements on the periodic table as a basis for understanding the descriptive chemistry of the elements
- knazzithe chorosteristic aronegties and repotions of the main grave elements
 - 4) be able to identify the basic structural motifs in the solid state.

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VIII. Special Resource Requirements: 1) Safety goggles 2) Laboratory notebook
IX. Bibliography:
1) Descriptive Inorganic Chemistry, Third Edition, Geoff Rayner-Canham and Tina Overton, W. H. Freeman: New York (2002)
2) Description Incurrence Coordination and Solid State Chemistry. G.F. Rodgers 2nd ed
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Course Proposals for Chemistry Program Revisions What other resources will be needed to teach this course and how adequate are the current Present departmental resources are adequate to teach this course.